

1. (Amended) A motor comprising:

a motor case;

a rotatable shaft that is rotatably supported by said motor case and is rotated upon actuation of said motor;

a worm shaft that is substantially coaxial with said rotatable shaft and is rotatably supported by said motor case;

Al a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith; and

a rotational sensor that includes a sensor magnet and a sensing element, said sensor magnet rotating integrally with said rotatable shaft, said sensing element measuring a rotational speed of said sensor magnet, wherein:

said sensor magnet is secured to said driving-side rotator to rotate integrally therewith;

said sensing element is secured to said motor case in such a manner that said sensing element opposes said sensor magnet; and

said coupling member transmits rotation of said rotatable shaft to said worm shaft and prevents transmission of rotation of said worm shaft to said rotatable shaft.

2. (Amended) A motor comprising:

a motor case;

a rotatable shaft that is rotatably supported by said motor case and is rotated upon actuation of said motor;

a worm shaft that is substantially coaxial with said rotatable shaft and is rotatably supported by said motor case;

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a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith; and

a rotational sensor that includes a sensor magnet and a sensing element, said sensor magnet rotating integrally with said rotatable shaft, said sensing element measuring a rotational speed of said sensor magnet, wherein:

said sensor magnet is secured to said driving-side rotator to rotate integrally therewith;

said sensing element is secured to said motor case in such a manner that said sensing element opposes said sensor magnet; and

said coupling member permits misalignment between a rotational axis of said rotatable shaft and a rotational axis of said worm shaft.

6. (Amended) A motor according to claim 1, wherein:

A2
said motor case includes a cup-shaped yoke and a housing, said cup-shaped yoke having an open end and receiving said rotatable shaft, said housing of said motor case receiving said worm shaft and being secured to said open end of said yoke;

said open end of said yoke has a brush holder secured therein; and

said sensing element is secured on a circuit board that is, in turn, secured to said brush holder.

Please add the following new claims.

9. (New) A motor according to claim 1, wherein:

said driving-side rotator includes:

a shaft portion, which receives said rotatable shaft in such a manner that said shaft portion rotates integrally with said rotatable shaft; and

A3
a disk body, which has an outer diameter larger than an outer diameter of said shaft portion; and

said driving-side rotator transmits rotation of said rotatable shaft to said driven-side rotator through said shaft portion and said disk body.

10. (New) A motor according to claim 9, wherein said sensor magnet is secured to said shaft portion of said driving-side rotator.

11. (New) A motor according to claim 1, wherein said driving-side rotator is made of a resin material.

12. (New) A motor according to claim 11, wherein said sensor magnet is secured to said driving-side rotator using a thermocompression technique.

13. (New) A motor according to claim 1, wherein:

said motor case includes a cup-shaped yoke and a housing, said cup-shaped yoke having an open end and receiving said rotatable shaft, said housing of said motor case receiving said worm shaft and being secured to said open end of said yoke;

A3
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said open end of said yoke has a brush holder secured therein, said brush holder holding a power supplying brush on a first axial side of said brush holder which faces an interior of said yoke; and

said sensing element is secured to a second axial side of said brush holder that is opposite to said first axial side of said brush holder.

14. (New) A motor according to claim 13, wherein said sensing element is secured on a circuit board that is, in turn, secured to said second axial side of said brush holder.

15. (New) A motor according to claim 1, wherein said coupling member permits misalignment between a rotational axis of said rotatable shaft and a rotational axis of said worm shaft.

16. (New) A motor according to claim 15, wherein said coupling member permits a predetermined amount of radial displacement and a predetermined amount of difference in a tilt angle between said rotational axis of said rotatable shaft and said rotational axis of said worm shaft.

17. (New) A motor according to claim 2, wherein said coupling member permits a predetermined amount of radial displacement and a predetermined amount of difference in a tilt angle between said rotational axis of said rotatable shaft and said rotational axis of said worm shaft.

18. (New) A motor comprising:

a motor case;

a rotatable shaft that is rotatably supported by said motor case and is rotated upon actuation of said motor;

a worm shaft that is substantially coaxial with said rotatable shaft and is rotatably supported by said motor case;

a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith; and

a rotational sensor that includes a sensor magnet and a sensing element, said sensor magnet rotating integrally with said rotatable shaft, said sensing element measuring a rotational speed of said sensor magnet, wherein:

said sensor magnet is secured to said driving-side rotator to rotate integrally therewith;
said sensing element is secured to said motor case in such a manner that said sensing element opposes said sensor magnet; and
said sensor magnet is arranged to cover a space that is defined in said coupling member and that is communicated with an interior of said coupling member.

19. (New) A motor comprising:

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a cup-shaped yoke that has an open end;
a rotatable shaft that is rotatably supported in said yoke and is rotated upon actuation of said motor;
a housing that is secured to said open end of said yoke;
a worm shaft that is separated from said rotatable shaft and is substantially coaxial with said rotatable shaft, said worm shaft being rotatably supported in said housing;
a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith;
a brush holder that is secured in said open end of said yoke and holds a power supplying brush on a first axial side of said brush holder which faces an interior of said yoke; and
a rotational sensor that includes a sensor magnet and a sensing element, said sensor magnet rotating integrally with said rotatable shaft, said sensing element measuring a rotational speed of said sensor magnet, wherein said sensing element is secured to a second axial side of

said brush holder, which is opposite to said first axial side of said brush holder, in such a manner that said sensing element opposes said sensor magnet.

20. (New) A motor according to claim 19, wherein said sensing element is secured on a circuit board that is, in turn, secured to said second axial side of said brush holder.

21. (New) A motor according to claim 19, wherein said sensor magnet is secured to said driving-side rotator to rotate integrally therewith.

22. (New) A motor comprising:

a motor case;

a rotatable shaft rotatably supported by said motor case and rotated upon motor actuation;

a worm shaft substantially coaxial with said rotatable shaft and rotatably supported by said motor case; and

a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith, said coupling member for transmitting rotation of said rotatable shaft to said worm shaft and for preventing transmission of rotation of said worm shaft to said rotatable shaft.

23. (New) A motor comprising:

a motor case;

a rotatable shaft rotatably supported by said motor case and rotated upon motor actuation;

a worm shaft substantially coaxial with said rotatable shaft and rotatably supported by said motor case; and

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a coupling member including a driving-side rotator and a driven-side rotator that is drivingly engageable with said driving-side rotator, said driving-side rotator being connected to said rotatable shaft to rotate integrally therewith, said driven-side rotator being connected to said worm shaft to rotate integrally therewith, said coupling member for permitting misalignment between a rotational axis of said rotatable shaft and a rotational axis of said worm shaft.
